

Work Order ID 129194

Friday, January 30, 2015 11:02:13 AM

129194

Page 1

Item ID: D4634-043 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Middle, Center Ceiling Panel Assembly
Start Date: 1/30/2015 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 1/30/2015 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: MLJ Date: 15-01-30 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4634	<u>F 7 8 12/16</u>

100		0.00							<u>ShmB</u>
100									<u>15/11/129</u>
HandThermo	Memo	0.00							
Hand Finishing Thermoforming	Pick Kit								

110		0.00							
110									
Small Fab	Memo	0.00							<u>DAS</u>
Small Fab	***BEFORE INTALLING D4728-051, APPLY A 3/16" SEEM OF PLASTIC-WELD 2 ON TOTAL LENGHT OF PART ON EANCH SIDE OF LIGHT, LET DRY FOR ONE HOUR*** PLASTIC-WELD 2 BATCH: <u>M33179</u>								<u>27</u>

1- Assemble as per Dwg D4634-043

2- Install led lights

3- Install Air valves

4-Install wiring harness

DEC 17 2015

4/30/2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only



Work Order: <u>129194</u> Part No. <u>D4634-043</u> NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; font-size: small;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐	2005/12/16	#100		UPDATE Drawing Rev on B Work Order	S 15/12/16				
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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 Start Date: 1/30/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 1/30/2015 Req'd Qty: 1.00 ***1*** Customer:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							DAS 16 2-22
120									
QC	Memo	0.00							2015/12/16
Quality Control									
130	Identify as per dwg & Stock Location: _____	0.00							
130									
Packaging	Memo	0.00							DAS 28 9-89
Packaging									DEC 17 2015
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							DEC 18 2015
Quality Control									

SAA 20151217

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 129194

129194

Parent Item: D4634-043

D4634-043

Parent Item Name: Middle, Center Ceiling Panel Assembly

Start Date: 1/30/2015

Required Date: 1/30/2015

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev. A 12/08/09 New Issue DL
 12/11/08 Doc Release DL VERIFIED BY:JLM
 13/07/09 DL verf: DD
 DL
 IPP Rev B
 IPP Rev C Dwg Update
 IPP Rev. D Dwg Update 13/12/23
 IPP REV E Dwg Update 14/01/20 DL

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4634-143		Manufactured	No			100	Each	0.0000	1	1			
D4634-143							BID22		**	1		SMB	
Middle, Center Ceiling Replacement Panel Assembly													
D4646-1		Manufactured	No			100	Each	164.0000	2	2			
D4646-1									**			SMB	
Plenum Cap Assembly													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF3		164				2			
				124234		107							
				125003		57							
D4652-1		Manufactured	No			100	Each	163.0000	2	2			
D4652-1									**			SMB	
Air Valve, 1.16 Id Disk Type													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF		163							
				112003		19				2			
				122691		144							
D4728-053		Manufactured	No			100	Each	22.0000	1	1			
D4728-053									**			SMB	
Cabin Lights #2												15/11/24	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF		22				1			
				117933		4							
				122551		18							

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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Page 2

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Work Order ID: 129194

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Parent Item: D4634-043

D4634-043

Parent Item Name: Middle, Center Ceiling Panel Assembly

Start Date: 1/30/2015

Required Date: 1/30/2015

Start Qty: 1.00

Required Qty: 1.00

PLT1.5M-M

Purchased

No

100

Each

2,950.000

3

3

PI T1 5M-M

Tie Wrap

SMB
15/11/24

Location

Loc Qty

Loc Code

MF

2950

m129712

2950

3

2351-20-27-C3C

2351-20-27-
Z3CT

Purchased

No

100

Each

125.0000

2

2

2351-20-27-C3C

STUD

SMB
15/11/24

Location

Loc Qty

Loc Code

MF5

98

m130318

98

ST569

27

m128068

27

2

50-009-2

Purchased

No

100

Each

81.0000

2

2

50-009-2

Grommet

SMB
15/11/24

Location

Loc Qty

Loc Code

MF4

77

m128047

77

ST562

4

m128047

4

2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

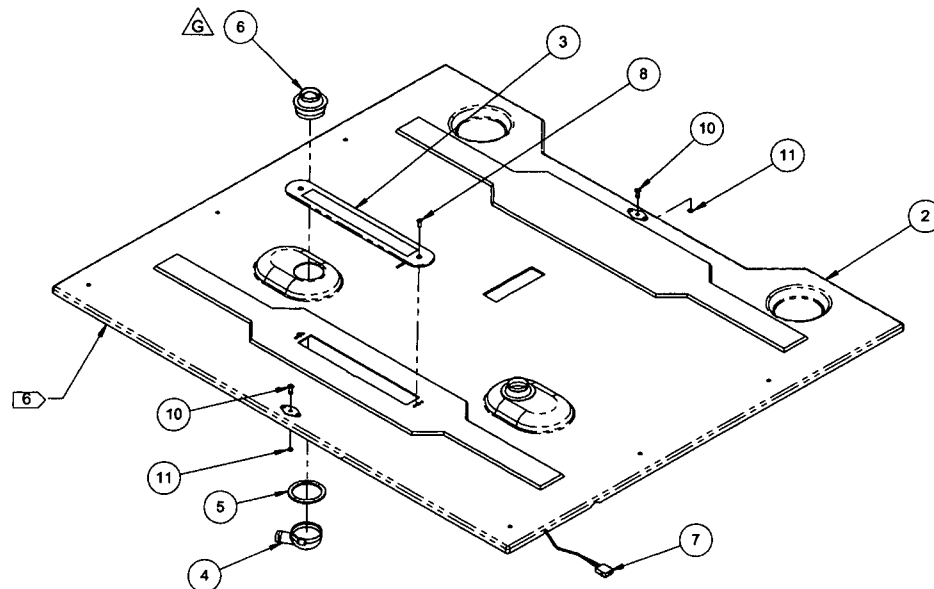
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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ITEM NO.	QTY. -043	P/N	DESCRIPTION
1	X	D4634-043	MIDDLE, CENTER CEILING PANEL ASSY
2	1	D4634-143	MIDDLE, CENTER CEILING REPLACEMENT PANEL ASSY
3	1	D4638-1 (REF)	LED LIGHT (REF PART OF D4728-053)
4	2	D4646-1	PLENUM CAP ASSEMBLY
5	2	D4652-3 (REF)	MOUNTING NUT (PART OF D4652-5)
6	2	D4652-5	AIR VALVE, 1.16 ID DISK TYPE
7	1	D4728-053	CABIN LIGHT #2 HARNESS ASSEMBLY
8	2	N/A (REF)	SCREW (PART OF D4638-1)
9	3	PLT1.5M-M	TIE-WRAP (OR PLT1.5M-C)
10	2	2351-20-27-C3C	DZUS STUD, OVAL HEAD
11	2	50-009-2	GROMMET

D4634-043 MIDDLE, CENTER CEILING PANEL ASSY

129194 MLJ
15-01-30

RELEASED

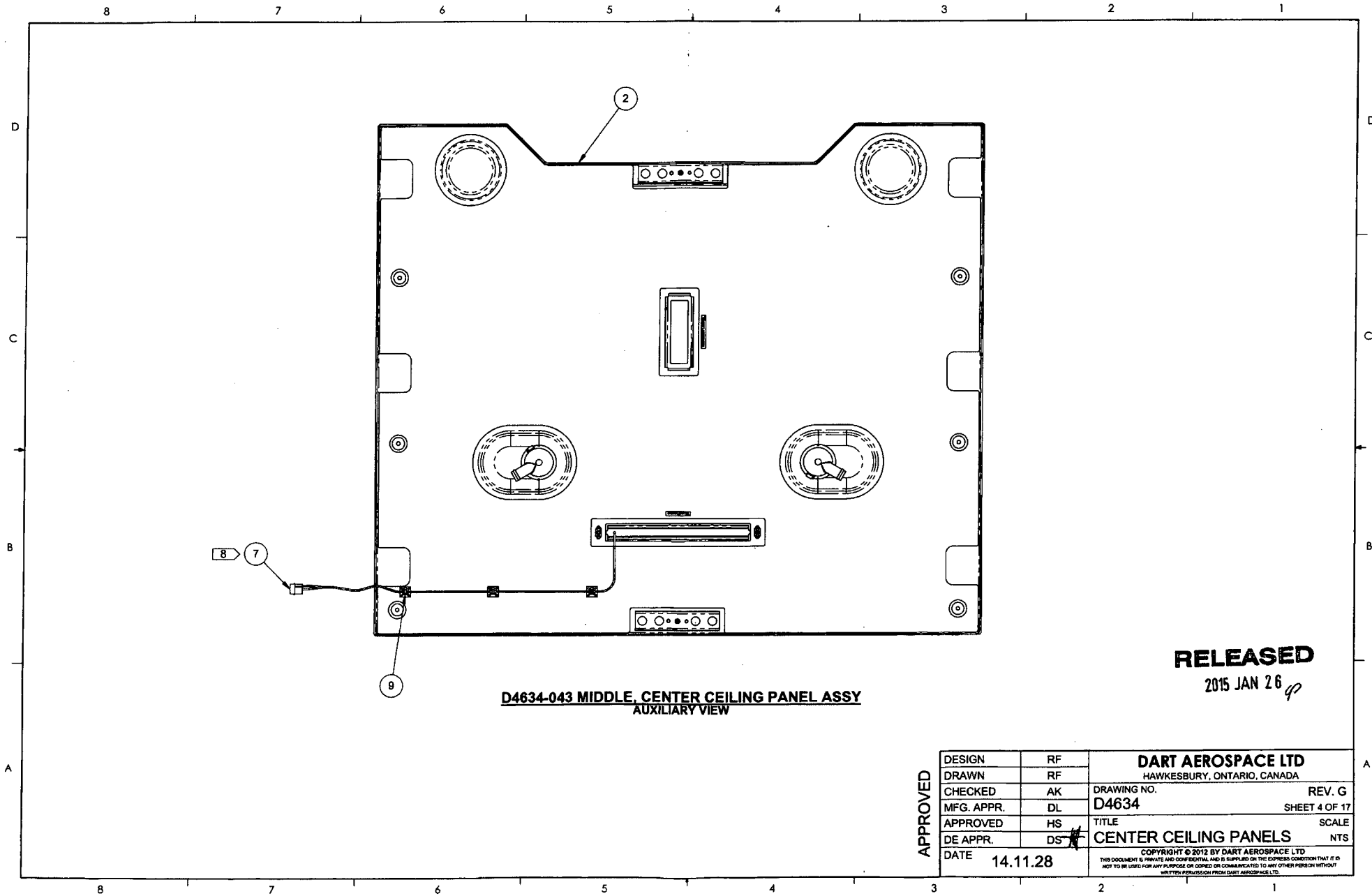
2015 JAN 26

- NOTES:**
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.4, ON SMOOTH SIDE
 - 7) WEIGHT: 9.5 lbs
 - 8) INSTALL D4728-053 WIRE HARNESS PER QSI 048

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	RF	
CHECKED	AK	DRAWING NO. D4634
MFG. APPR.	DL	REV. G
APPROVED	HS	SHEET 3 OF 17
DE APPR.	DS	TITLE CENTER CEILING PANELS
DATE	14.11.28	SCALE NTS

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D4634-043 MIDDLE, CENTER CEILING PANEL ASSY
AUXILIARY VIEW

RELEASED

2015 JAN 26 *92*

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	AK	DRAWING NO. D4634	REV. G
MFG. APPR.	DL	SHEET 4 OF 17	
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	CENTER CEILING PANELS	NTS
DATE	14.11.28	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	